



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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June 13, 2000

TO: Minerals File

FROM: Anthony A. Gallegos, Senior Reclamation Specialist *adg*

RE: Site Inspection, LDS Corp of the Presiding Bishopric, Little Cottonwood Granite Quarry, S/035/017, Salt Lake County, Utah

Date of Inspection: June 2, 2000

Time of Inspection: 1104 - 1235

Conditions: Warm, clear skies

Participants: Greg Baptist, Grading Inspector, Salt Lake County; Mary Ann Wright, Susan White, Jared Sorensen, Tony Gallegos, DOGM

Purpose of Inspection: To examine the condition of the site.

We met Greg Baptist at the fenced off parking area at the bottom of the road up to the quarry site. A chain link fence is placed between the road side and the parking area, but the gate is not locked. Greg described the recent meetings between Salt Lake County and representatives of the LDS Church regarding the reclamation and restoration of the site. A regrading plan is expected to be submitted to the County today and the revegetation plan is expected to be submitted in July. The regrading work is expected to begin within the next week if the County approves of the regrading plan. The regrading work is projected to last ten weeks or more. The County and LDS Church plan to initiate a public relations campaign to inform the community of the work being done, and what the public can do to minimize impacts to the restoration area. The revegetation plan must use indigenous plants and materials. Damaged or destroyed trees will be replaced at a 2:1 or 3:1 ratio depending on the diameter of the tree. Greg left the site about 1140 to attend to other matters.

We walked up the road to the upper quarry site first and then came back down and walked along the lower road to the lower site. There were several drainage diversions on the road directing drainage and sediment into basins and/or silt fences. The steep sections of the road leading to the upper quarry site included water bars/ditches to direct surface water runoff across the road. The road sections at the upper quarry areas were composed of loose soil and rock materials. The road showed signs of repetitive foot traffic, creating a packed trail leading through the quarry site towards the base of the granite faces. At the time of this visit there were climbers on the granite face above and east of the quarry site, and another group of climbers had walked past us while we were down in the parking area.

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In the uppermost quarry area there were several larger boulders resting on soils which could erode after a series of rain events and cause the boulders to slide. Given the location and size of the boulders, and the switchback road cuts, it is doubtful that these boulders would move beyond the road cut if they did happen to slide loose. The road to the upper sites includes some soils which could be suitable for revegetation; however, the regrading of the road cut and dispersal of rocks and boulders would limit the areas where containerized trees could be planted. Digging in the rocky soil in this upper area to plant containerized stock by hand after the earthwork is completed could be difficult. A number of photographs were taken from this upper vantage point to document the site disturbance.

We then walked down to the intersection where the lower road split off toward the west. The lower road has considerably more soil material than the upper road. The soil volume and conditions in this lower quarry area appear to be more favorable to seeding or hand planting. Photographs were taken of this lower area to document the current conditions. Plastic orange fencing was visible in several locations around the outside of the project area with danger signs.

In conclusion, the Division will coordinate with Salt Lake County regarding the regrading and revegetation plan for this site. The Division may be able to provide the County with information on earthwork and revegetation techniques which have been successful in reclaiming mine sites. Greg agreed to provide the Division with copies of the regrading and revegetation plan as they became available.

jb

cc: Kerry Nielsen, LDS Church  
Greg Baptist, Salt Lake County, Public Works Department  
Mary Ann Wright, Associate Director

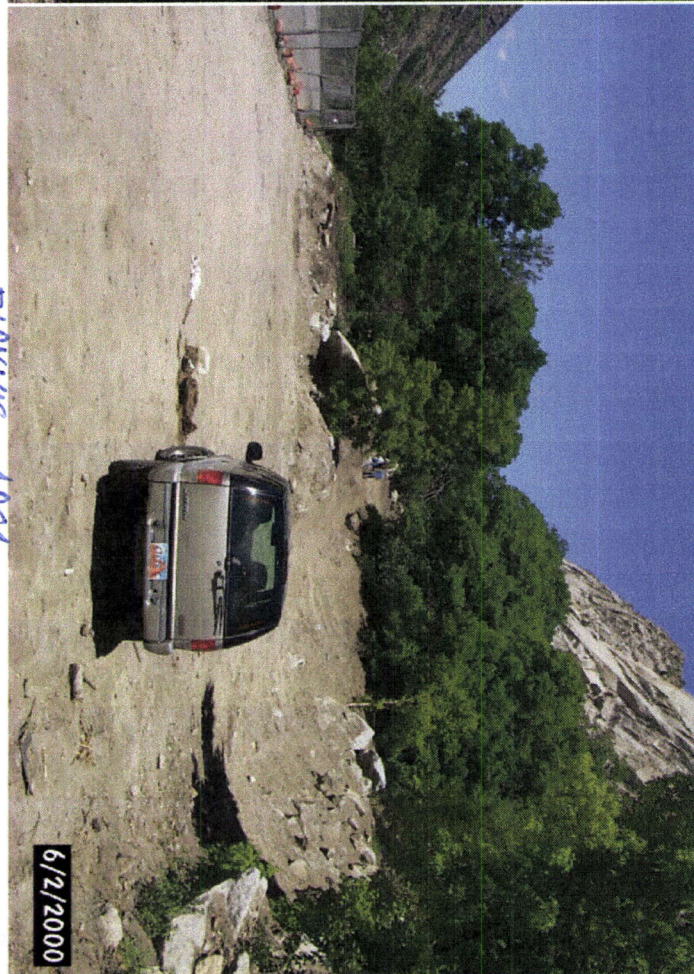
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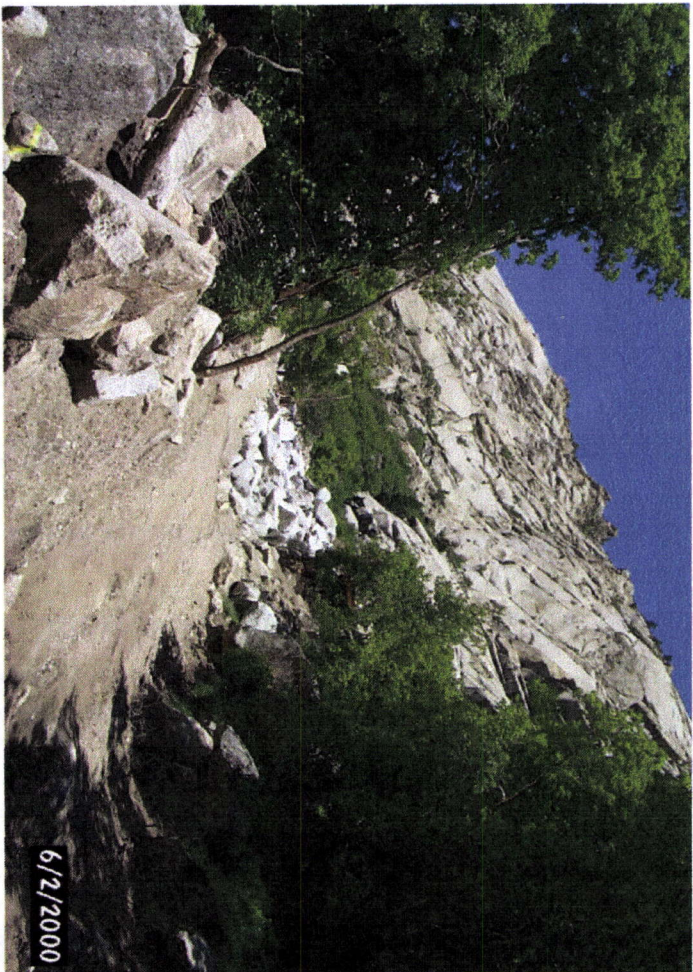
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LOOKING DOWN ROAD OLD PARKING AREA

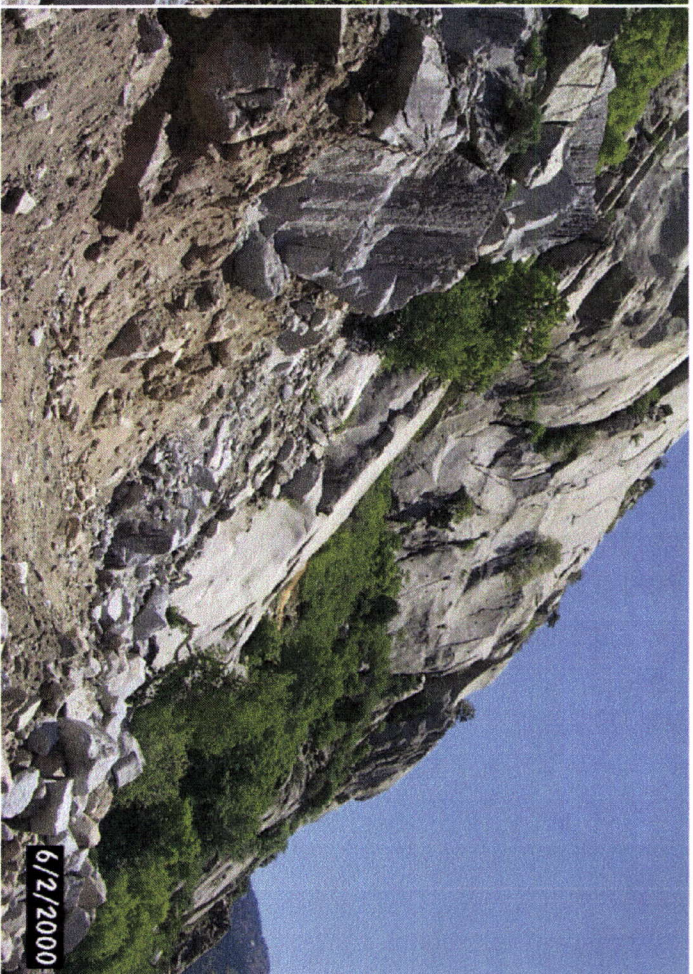
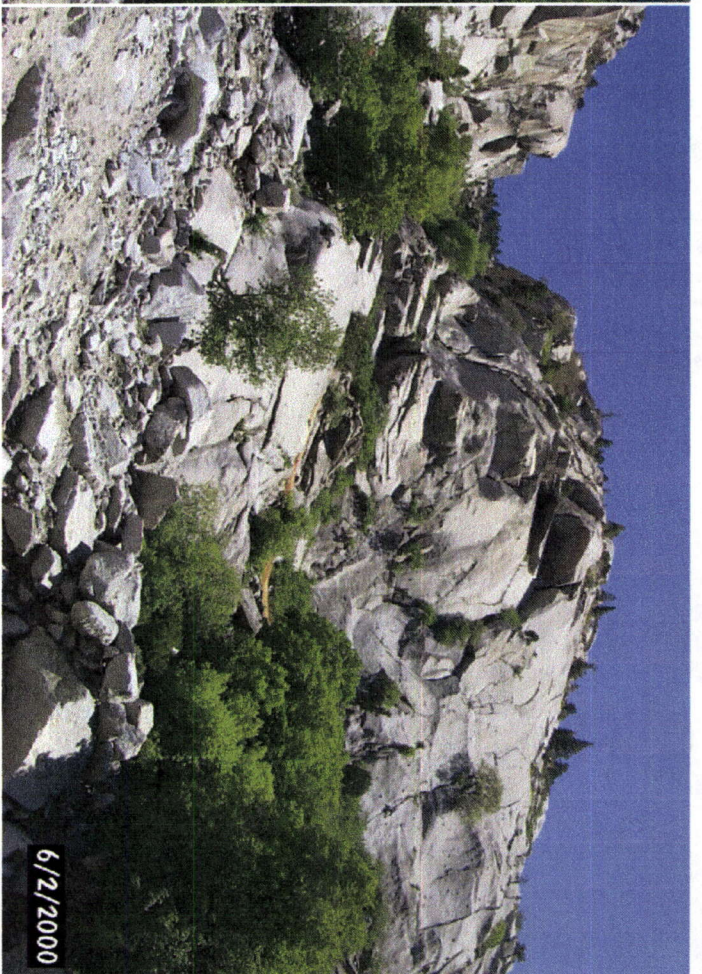


PARKING AREA



SILT FENCE / SEDIMENT BASIN





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Looking down from upper Remount Area

upper Remount Area

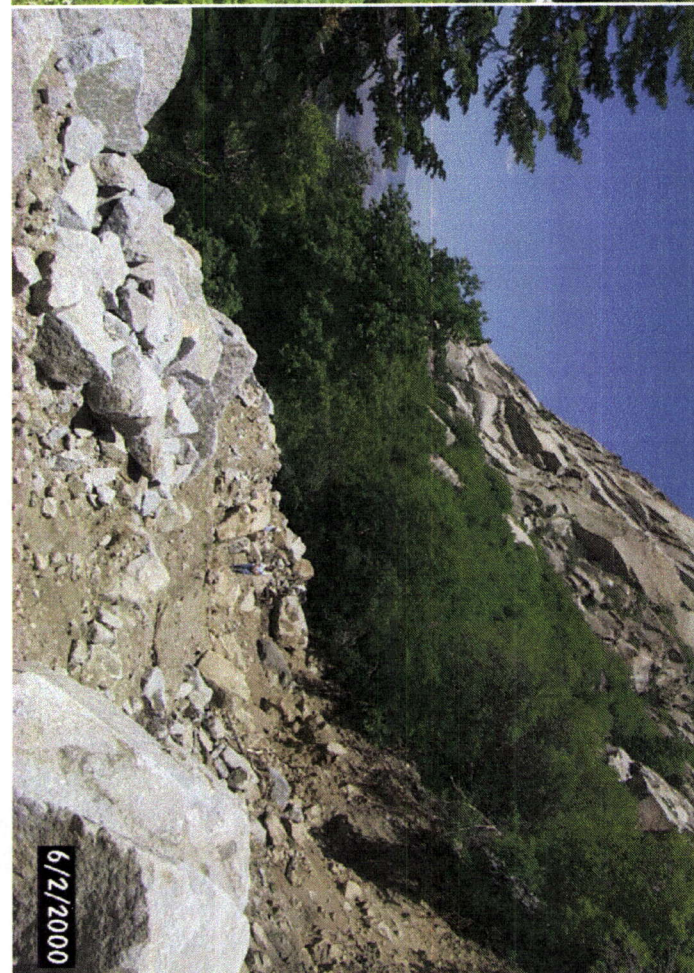


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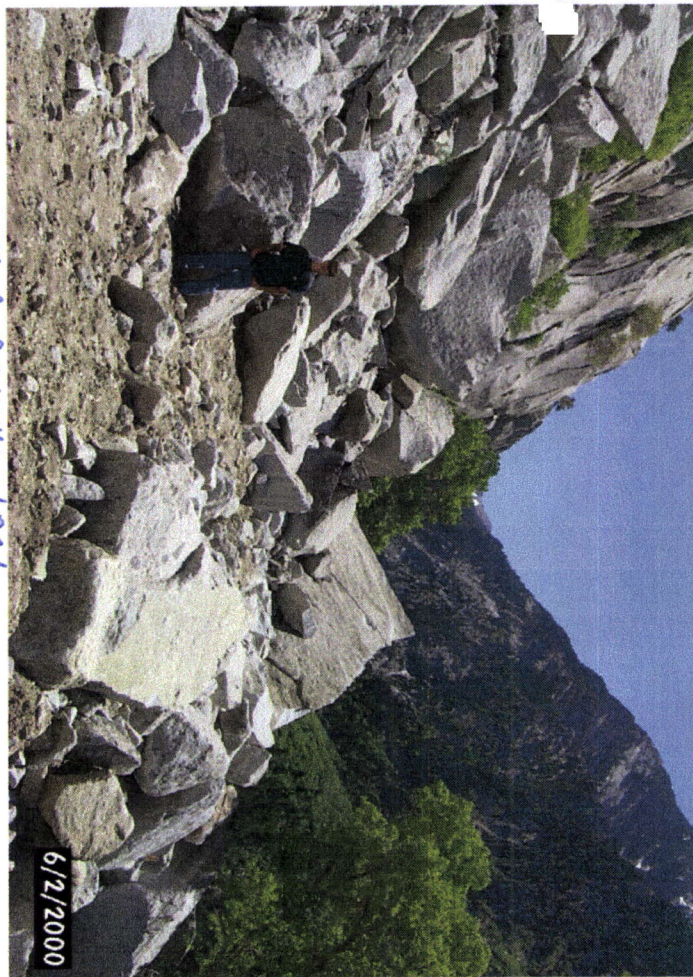
LOWER REYNOLDS ARET-FROM ABOVE





9/035/017

41.



UPPER REMOUNT AREA







LOOKING ~ SE @ LOWER ROAD RESORT AREA



LOOKING ~ NW @ LOWER ROAD RESORT AREA



FENCING & WITHDRAWING SIGNS AROUND SITE



LOWER ROAD

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SECTION B  
EARTH CUTS/FILLS  
TYPICAL ROAD CROSS SECTION

SECTION A  
ROCK CUTS/FILLS  
TYPICAL ROAD CROSS SECTION

CONSTRUCTION NOTES:

1. Construct road to the extent possible with the minimum amount of cut/fill and hillside grading. Use excavation rock material and fill for embankments. Slopes shall be 1H:1V for upper road and 1H:1.5V for lower road. Steeper slopes shall be 1H:1V. Slopes shall be 1H:1V for upper road and 1H:1.5V for lower road. Steeper slopes shall be 1H:1V.
2. Road cut shall be constructed with the minimum width needed for access to the boulder field, however, shall not exceed those dimensions given on the drawings.
3. Slope road surface towards the boulder field as shown on the typical road section to drain in minimum distance. Construct drainage ditch to drain runoff into the boulder field.
4. Place culverts and sediment catch basins at all natural drainage points at 100-ft. intervals, as shown on Sheet XSL-1, Sediment Catch Basins.
5. All work within the Limit-Line shall be contained within the Limit-Line. Disturbance to be kept to a minimum. Minimum required width of road shall be 16' for upper road and 14' for lower road. Road shall be 16' wide for upper road and 14' wide for lower road.
6. Limit of disturbance area (perimeter) shall have signs placed at 50-ft. intervals reading out "DANGER - NO TRAFFIC AREA - DANGER - PLEASE KEEP OUT".



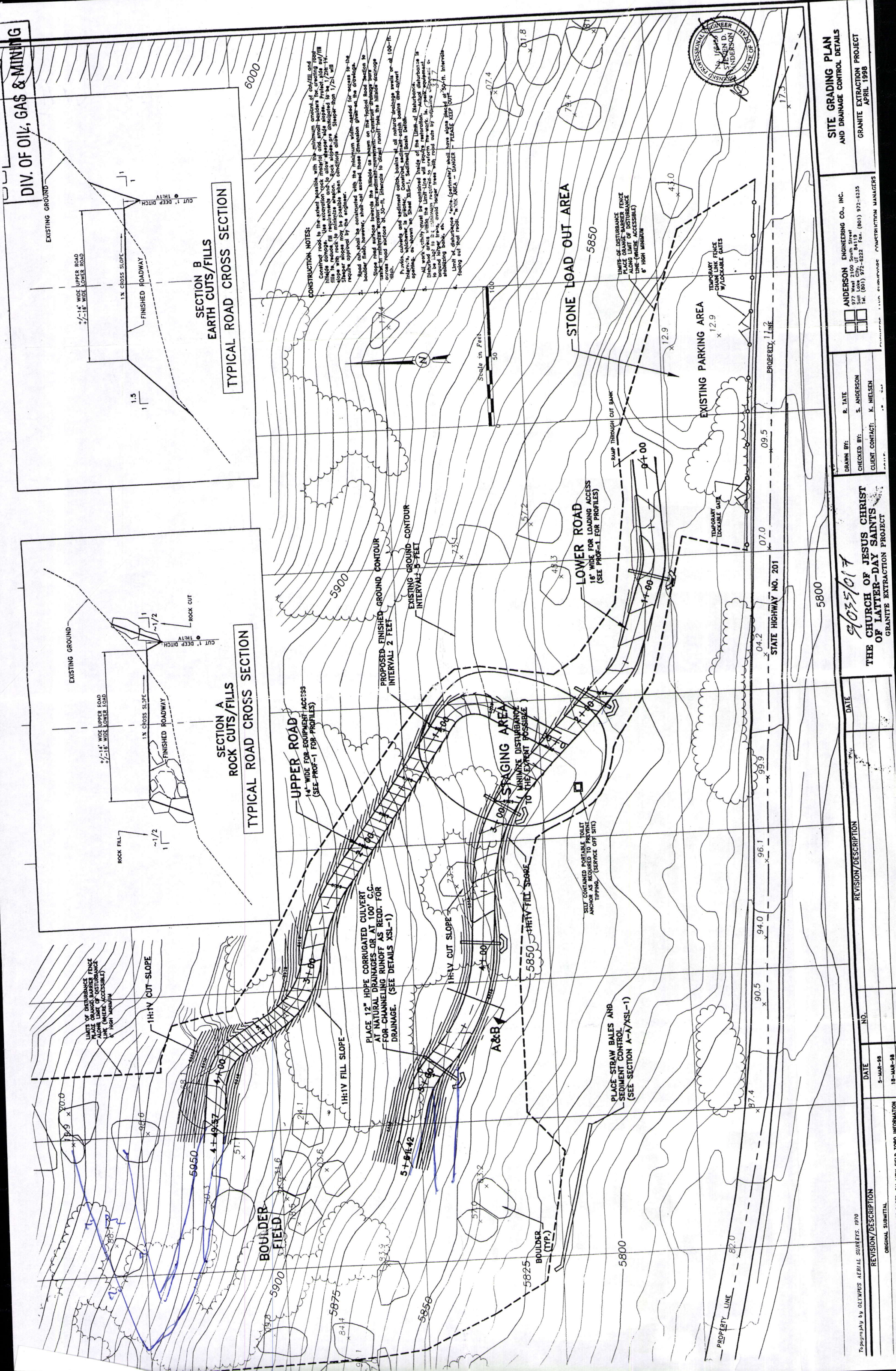
SITE GRADING PLAN  
AND DRAINAGE CONTROL DETAILS  
GRANITE EXTRACTION PROJECT  
APRIL 1998

ANDERSON ENGINEERING CO., INC.  
977 West 2100 South Street  
Salt Lake City, UT 84119  
Tel. (801) 972-6235 Fax. (801) 972-6232

DRAWN BY: R. TATE  
CHECKED BY: S. ANDERSON  
CLIENT CONTACT: K. NELSEN

THE CHURCH OF JESUS CHRIST  
OF LATTER-DAY SAINTS  
GRANITE EXTRACTION PROJECT

REVISION/DESCRIPTION	DATE	NO.
ORIGINAL SUBMITTAL	5-MAR-98	1
ADJUST ROAD ALIGNMENTS PER S.L. COUNTY, UPDATE BASED ON NEW FIELD TOPO INFORMATION	18-MAR-98	2





FIELD COPY

3/035/017

6/2/00 inspection